

STEEL PIPE POLE BASE AND REINFORCING METHOD THEREOF

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ABSTRACT OF THE DISCLOSURE

10 The present invention: provides a steel pipe pole base and a method for reinforcing the steel pipe pole base that do not allow the strength to lower in the vicinity of the weld toe of a rib even in the event of applying repeated bending moment; and is characterized by forming peening processed portions 20 by ultrasonic vibration at the weld toes 16 of tabular ribs 12 welded to the base of a steel pipe pole 10 in the form of a T-joint or the weld toes of inverted-U shaped ribs 13 or inverted-V shaped ribs 14, the ribs being bent at the upper end portions, welded to the base of a steel pipe pole 10 in the form of a T-joint. Preferable treatment conditions are 20 to 50  $\mu\text{m}$  in amplitude and 10 to 50 kHz in frequency. In particular, the present invention makes it possible to remarkably improve the fatigue property because stress concentration is relaxed by the synergetic effect of bending the upper end portions 16 of the ribs 13 and applying a peening treatment.

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